

PB

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,765

DATE: 09/24/2001

TIME: 16:15:25

Input Set : A:\20351p.txt

Output Set: N:\CRF3\09242001\I831765.raw

ENTERED

4 <110> APPLICANT: Liu, Qingyun
 5 McDonald, Terrence P.
 7 <120> TITLE OF INVENTION: DNA MOLECULES ENCODING HG51, A
 8 G PROTEIN-COUPLED RECEPTOR
 11 <130> FILE REFERENCE: 20351P
 13 <140> CURRENT APPLICATION NUMBER: 09/831,765
 C--> 14 <141> CURRENT FILING DATE: 2001-08-24 9K
 16 <150> PRIOR APPLICATION NUMBER: PCT/US99/27305
 17 <151> PRIOR FILING DATE: 1999-11-18
 19 <150> PRIOR APPLICATION NUMBER: 60/109,717
 20 <151> PRIOR FILING DATE: 1998-11-24
 22 <160> NUMBER OF SEQ ID NOS: 15
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 1537
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapien (human)
 31 <400> SEQUENCE: 1
 32 ggggccacgg ggggtgcgcc ggcgcgcggt agcgcgggcc cctcagtcca caatggccag 60
 33 agcaggcggc ggagcccag cccacccag tgcggagcgc gccgcgagcc ccgcgcgaag 120
 34 ctgagcgcct ccgcccgcga ggcgcgcgg cgccgggcca tgtactcggg gaaccgcagc 180
 35 ggcggccacg gctactggga cggcggcgg ggcgcggcg ctgaggggcc ggcgcggcg 240
 36 gggacactga gcccgcgccc cctcttcagc cccggcacct acgagcgcc ggcgctgtg 300
 37 ctgggctcca ttgggtgct gggcgctcgc aacaacctgc tgggtgctgt cctctactac 360
 38 aagttccagc ggctccgcac tcccactcac ctctctctg tcaacatcag cctcagcgac 420
 39 ctgctggtgt cctctctcgg ggtcaccttt accttcgtgt cctgcctgag gaacggctgg 480
 40 gtgtgggaca ccgtgggctg cgtgtgggac gggtttagcg gcagcctctt cgggattgtt 540
 41 tccattgcca ccctaaccgt gctggcctat gaacgttaca ttgcggtggt ccatgccaga 600
 42 gtgatcaatt ttctctgggc ctggagggcc attacctaca tctggctcta ctactggcg 660
 43 tgggcaggag cacctctcct gggatggaac aggtacatcc tggacgtaca cggactaggc 720
 44 tgcactgtgg actggaaatc caaggatgcc aacgattcct cctttgtgct tttcttattt 780
 45 cttggctgcc tgggtggtgcc cctgggtgtc atagcccatt gctatggcca tattctatat 840
 46 tccattcgaa tgcttcgttg tgtggaagat cttcagacaa ttcaagtgat caagatttta 900
 47 aatatgaaa agaaactggc caaaatgtgc tttttaatga tattcacctt cctggctctg 960
 48 tggatgcctt atatcgtgat ctgcttcttg gtggttaatg gtcattggtca cctgggtcact 1020
 49 ccaacaatat ctattgttcc gtacctcttt gctaaatcga aactgtata caatccagtg 1080
 50 atttatgtct tcatgatcag aaagtttoga agatcccttt tgcagcttct gtgcctccga 1140
 51 ctgctgaggt gccagaggcc tgctaaagac ctaccagcag ctggaagtga aatgcagatc 1200
 52 agaccatttg tgatgtcaca gaaagatggg gacaggccaa agaaaaaagt gactttcaac 1260
 53 tcttcttcca tcatttttat catcaccagt gatgaatcac tgtcagttga cgacagcgac 1320
 54 aaaaccaatg ggtccaaagt tgatgtaatc caagttcgtc cttttagtag atgaagaatg 1380
 55 gcaacgaaag atggggcctt aaattggatg ccacttttgg actttcatca taagaagtgt 1440
 56 ctggaatacc cgttctatgt aatatcaaca gaacctgtg gtccagcagg aaatccgaat 1500
 57 tgcccatatg ctcttgggcc tcaggaagag gttgaac 1537
 59 <210> SEQ ID NO: 2
 60 <211> LENGTH: 402
 61 <212> TYPE: PRT

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62 <213> ORGANISM: Homo sapien (human)
 64 <400> SEQUENCE: 2
 65 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly
 66 1 5 10 15
 67 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro
 68 20 25 30
 69 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu
 70 35 40 45
 71 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val
 72 50 55 60
 73 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu
 74 65 70 75 80
 75 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
 76 85 90 95
 77 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val
 78 100 105 110
 79 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser
 80 115 120 125
 81 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val
 82 130 135 140
 83 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr
 84 145 150 155 160
 85 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
 86 165 170 175
 87 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp
 88 180 185 190
 89 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu
 90 195 200 205
 91 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His
 92 210 215 220
 93 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr
 94 225 230 235 240
 95 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met
 96 245 250 255
 97 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile
 98 260 265 270
 99 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 100 275 280 285
 101 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr
 102 290 295 300
 103 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
 104 305 310 315 320
 105 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys
 106 325 330 335
 107 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
 108 340 345 350
 109 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser
 110 355 360 365
 111 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp

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112      370      375      380
113 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg
114 385      390      395      400
115 Pro Leu
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 395
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapien (human)
123 <400> SEQUENCE: 3
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125 ggatgtgtgg ttccatttct gcatttcatac ttagcagtaa atgtcaaaaat gcatcatata      120
126 tgcatttgtg actggaactc ttctcgaaga ggctgccgct aaaccgcgtcc cacacgcagc      180
127 ccacggtgtc ccacacccag ccgttcctca ggcaggacac gaaggtaaag gtgaccccga      240
128 agaggtacac agcagggtcg tgaggctgat gttgaccagg aggaggtgag tgggagtgcg      300
129 gagcgctgga acttgtagta gaggacgagc accagcaggt tgttgccgac gccacgcagc      360
130 ccaatggagc ccagcagcag cgcaggccct cgtgc      395
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 27
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence ✓
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Oligonucleotide ✓
140 <400> SEQUENCE: 4
141 cgggtaccat gtactcgggg aaccgca
143 <210> SEQ ID NO: 5      27
144 <211> LENGTH: 30
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence ✓
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Oligonucleotide ✓
151 <400> SEQUENCE: 5
152 gcgcggccgc acgggtattc cagacacttc
154 <210> SEQ ID NO: 6      30
155 <211> LENGTH: 30
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence ✓
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Oligonucleotide ✓
162 <400> SEQUENCE: 6
163 gcgcggccgc cccatctttc gttgccattc
165 <210> SEQ ID NO: 7      30
166 <211> LENGTH: 22
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence ✓
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Oligonucleotide ✓
173 <400> SEQUENCE: 7
174 caacaacctg ctggtgctcg tc
176 <210> SEQ ID NO: 8      22

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177 <211> LENGTH: 18
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Oligonucleotide
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185 gctgggcgtc ggcaacaa
187 <210> SEQ ID NO: 9 18
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Oligonucleotide
195 <400> SEQUENCE: 9
196 caggcaggac acgaaggtaa
198 <210> SEQ ID NO: 10 20
199 <211> LENGTH: 22
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Oligonucleotide
206 <400> SEQUENCE: 10
207 ggtcgtgag gctgatgttg ac
209 <210> SEQ ID NO: 11 22
210 <211> LENGTH: 20
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Oligonucleotide
217 <400> SEQUENCE: 11
218 ggggatgtgc tgcaaggcga
220 <210> SEQ ID NO: 12 20
221 <211> LENGTH: 22
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Oligonucleotide
228 <400> SEQUENCE: 12
229 ccagggtttt ccagtcacg ac
231 <210> SEQ ID NO: 13 22
232 <211> LENGTH: 25
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Oligonucleotide
239 <400> SEQUENCE: 13
240 cccaggcttt acactttatg cttcc
242 <210> SEQ ID NO: 14 25
243 <211> LENGTH: 25

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25

244 <212> TYPE: DNA
 245 <213> ORGANISM: Artificial Sequence
 247 <220> FEATURE:
 248 <223> OTHER INFORMATION: Oligonucleotide
 250 <400> SEQUENCE: 14
 251 ttgtgtggaa ttgtgagcgg ataac
 253 <210> SEQ ID NO: 15
 254 <211> LENGTH: 348
 255 <212> TYPE: PRT
 256 <213> ORGANISM: Homo sapien (human)
 258 <400> SEQUENCE: 15
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 261 Thr Gly Val Val Arg Ser Pro Phe Glu Tyr Pro Gln Tyr Tyr Leu Ala
 262 20 25 30
 263 Glu Pro Trp Gln Phe Ser Met Leu Ala Ala Tyr Met Phe Leu Leu Ile
 264 35 40 45
 265 Val Leu Gly Phe Pro Ile Asn Phe Leu Thr Leu Tyr Val Thr Val Gln
 266 50 55 60
 267 His Lys Lys Leu Arg Thr Pro Leu Asn Tyr Ile Leu Leu Asn Leu Ala
 268 65 70 75 80
 269 Val Ala Asp Leu Phe Met Val Leu Gly Gly Phe Thr Ser Thr Leu Tyr
 270 85 90 95
 271 Thr Ser Leu His Gly Tyr Phe Val Phe Gly Pro Thr Gly Cys Asn Leu
 272 100 105 110
 273 Glu Gly Phe Phe Ala Thr Leu Gly Gly Glu Ile Ala Leu Trp Ser Leu
 274 115 120 125
 275 Val Val Leu Ala Ile Glu Arg Tyr Val Val Val Cys Lys Pro Met Ser
 276 130 135 140
 277 Asn Phe Arg Phe Gly Glu Asn His Ala Ile Met Gly Val Ala Phe Thr
 278 145 150 155 160
 279 Trp Val Met Ala Leu Ala Cys Ala Ala Pro Pro Leu Ala Gly Trp Ser
 280 165 170 175
 281 Arg Tyr Ile Pro Glu Gly Leu Gln Cys Ser Cys Gly Ile Asp Tyr Tyr
 282 180 185 190
 283 Thr Leu Lys Pro Glu Val Asn Asn Glu Ser Phe Val Ile Tyr Met Phe
 284 195 200 205
 285 Val Val His Phe Thr Ile Pro Met Ile Ile Ile Phe Phe Cys Tyr Gly
 286 210 215 220
 287 Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu Ser
 288 225 230 235 240
 289 Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val Ile Ile
 290 245 250 255
 291 Met Val Ile Ala Phe Leu Ile Cys Trp Val Pro Tyr Ala Ser Val Ala
 292 260 265 270
 293 Phe Tyr Ile Phe Thr His Gln Gly Ser Asn Phe Gly Pro Ile Phe Met
 294 275 280 285
 295 Thr Ile Pro Ala Phe Phe Ala Lys Ser Ala Ala Ile Tyr Asn Pro Val
 296 290 295 300